

5060

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/544,284A
Source: PCT
Date Processed by STIC: 6-8-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/544,284A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped. Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 ____ Use of <220>	Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



PCT

RAW SEQUENCE LISTING

DATE: 06/08/2006

PATENT APPLICATION: US/10/544,284A

TIME: 09:53:36

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set : N:\CRF4\06082006\J544284A.raw

3 <110> APPLICANT: Brown, Devon
 4 Campos, Manuel
 5 Dalmia, Bipin
 6 Demarest, Stephen
 7 Hansen, Genevieve
 8 Heifetz, Peter B.
 10 <120> TITLE OF INVENTION: Expression in plants of antibodies against enterotoxigenic
 11 Escherichia coli
 13 <130> FILE REFERENCE: 70235USPCT
 15 <140> CURRENT APPLICATION NUMBER: 10/544,284A
 16 <141> CURRENT FILING DATE: 2005-08-02
 18 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/001427
 19 <151> PRIOR FILING DATE: 2004-02-16
 21 <150> PRIOR APPLICATION NUMBER: US 60/448,429
 22 <151> PRIOR FILING DATE: 2003-02-18
 24 <160> NUMBER OF SEQ ID NOS: 80
 26 <170> SOFTWARE: PatentIn version 3.3
 28 <210> SEQ ID NO: 1
 29 <211> LENGTH: 399
 30 <212> TYPE: DNA
 31 <213> ORGANISM: artificial sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: codon optimised
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 39 aagctctcct gcgcgcctc cggcttcacc ttctccgact acttcatgtc ctggattcgc 120
 41 cagaccccgga agaagcgctt ggagtggttc gccaccatca acaacggcgg ctccacacc 180
 43 tactgtctcg acaacgtgaa gggccgcttc accaccttcc gcgacaacgt gaagaacacc 240
 45 ctctacctcc agatgtcctc cctcaacttc gaggacaccg ccatgtacta ctgcgccgcg 300
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 54 <212> TYPE: DNA
 55 <213> ORGANISM: artificial sequence
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 58 <223> OTHER INFORMATION: codon optimised
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 65 accagcgctt cccgcgcctt cctcatccag tgcgcctccg agtccatctc cggcatcccg 180
 67 tcccgcttct ccggcaccgg ctccggcacc gacttcaccc tcaacttcaa ctccgtggag 240
 69 tccgagtaca tcaccgacta ctactgccag cagtccaaca cctggccgac ctaccgcttc 300

Does Not Comply
Corrected Diskette Needed

CPg.1-

Invalid Response

See item #11 on error summary sheet.

RAW SEQUENCE LISTING

DATE: 06/08/2006

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TIME: 09:53:36

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\06082006\J544284A.raw

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71 ggcgggcgga ccaagctcga gatcaagcgc gccgacgccg ccccgaccgt gtccatcttc 360
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75 ttctacccga aggacatcaa cgtgaagtgg aagatcgacg gctccgagcg ccagaacggc 480
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83 <211> LENGTH: 399
84 <212> TYPE: DNA
85 <213> ORGANISM: mouse
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90 aaactctcct gtgcagcctc tggattcact ttcagtgact atttcattgtc ttggattcgc 120
92 cagactccgg aaaagagggt ggagtgggtc gcaaccatta ataatgggtg tagtcacacc 180
94 tactgttcag acaatgtgaa gggacgattt acaactttca gagacaatgt caaaaacacc 240
96 ctgtaccttc aaatgagcag tctgaacttt gaggacacag ccatgtatta ctgtgcaaga 300
98 gcctactata ggttcgacgt gagggcctgg tttctctatt ggggccaagg gactctggtc 360
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104 <211> LENGTH: 330
105 <212> TYPE: DNA
106 <213> ORGANISM: mouse
108 <400> SEQUENCE: 4
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111 gtcagtttct cctgcagggc cagtcagatc attggcacia ccatacactg gtctcagcaa 120
113 agaacagatg gttctcctag gcttctcata cagtgtgctt ctgagtctat ctctgggac 180
115 ccttccaggt ttagtggcac tggatcaggg acagatttta ctcttaactt caacagtgtg 240
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119 ttcggagggg ggaccaagct cgagataaaa 330
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125 <213> ORGANISM: artificial sequence
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128 <223> OTHER INFORMATION: codon optimised
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133 aagctctcct gcgcccctc cggcttcacc ttctcctcct tcgccaatgca ctgggtgcgc 120
135 caggccccag agaaggcctt ggagtgggtg gcctacatct cctccggctc catcaccatc 180
137 tactacgccg acaccgtgaa gggccgcttc accgtgtccc gcgacaacce gaagtccacc 240
139 ctcttctcct agatgacctc cctccgcagc gaggacaccg ccatgtacta ctgcgcccgc 300
141 gacgactacg gtcctccggc ctggtacttc gacgtctggg gcgctggcac caggtgacc 360
143 gtgtcctcgg ccaagaccac cccgccgtcc gtctac 396
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 336
148 <212> TYPE: DNA
149 <213> ORGANISM: artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: codon optimised
154 <400> SEQUENCE: 6

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Invalid response

Invalid response

See item #11
on error
summary
sheet

RAW SEQUENCE LISTING

DATE: 06/08/2006

PATENT APPLICATION: US/10/544,284A

TIME: 09:53:36

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\06082006\J544284A.raw

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157 gtcaccatgt cctgcaagtc ctccagtcct ctcctcaact cccgcacccg caagaactac 120
159 ctgccttgt atcagcagaa gccgggccag tccccgaagc tctcatcta ctgggctcc 180
161 acccgcgagt ccggcgtgcc ggaccgcttc accggctccg gctccggcac cgacttcacc 240
163 ctccaccatct cctccgtgca ggcggaggac ctgcgcgtgt actactgcac ccagtcctac 300
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169 <211> LENGTH: 393
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171 <213> ORGANISM: artificial sequence
173 <220> FEATURE:
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179 aagatatcct gcaaggcttc tgattactca ctactgatt actacatgca ctgggtcaag 120
181 cagagccatg gagagagcct tgagtggatt ggatatatta atttttacaa tgggtgctact 180
183 aactacaacc agaagttcaa gggcaaggcc acatttactg tagacacatc ctccagcaca 240
185 gtctacatgc agttcaacag cctgacatct gaagactctg cgggtctatta ttgtgtaaga 300
187 gaagcattac tacggaacta tgctatggac tactggggtc aaggaacctc agtcaccgtc 360
189 tctcagcca aaacgacacc cccatctgtc tac 393
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193 <211> LENGTH: 324
194 <212> TYPE: DNA
195 <213> ORGANISM: artificial sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: anti0K88 codon optimised VL from 36-41
200 <400> SEQUENCE: 8
201 actagtgaag atgtgtcac ccagtcctca gcaatcatgt ctgcatctcc aggggaaaag 60
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205 cagaagtcat gtgcctcccc caaactctgg atttatagca catccaactt ggcttctgga 180
207 gtccctgctc gcttcagtgg cagtgggtct gggacctctt actctctcac aatcagcagt 240
209 gtggaggctg aagatgctgc cacttattac tgccagcaat acagtgggta cccgtggacg 300
211 ttcggtggag gcaccaagct cgag 324
214 <210> SEQ ID NO: 9
215 <211> LENGTH: 408
216 <212> TYPE: DNA
217 <213> ORGANISM: artificial sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: anti0K88 codon optimised VH from 7-46
222 <400> SEQUENCE: 9
223 actagtgaag tgaagcttga ggagctctgga ggaggcttgg tgcaacctgg aggatccatg 60
225 agactctcct gtgttgcttc tggattcact ttcagtaact actggatgaa ctgggtccgc 120
227 cagtctccag agaaggggct tgagtgggtt gctgaaatta gattgacatc taataatttt 180
229 gcaacacatt atgcggagtc tgtgaaaggg aggttcacca tctcaagaga tgattccaaa 240
231 agtagtgtct acctgcaaat gaacaactta agagctgaag aactggcat ttattactgt 300
233 accaggcctt actacggtgg taggttcttc tactggtact tcgatgtctg gggcgagggg 360
235 accacggtca ccgtctcttc aacccaaacg acacccccat ctgtctac 408
238 <210> SEQ ID NO: 10
239 <211> LENGTH: 324

Invalid Response

Invalid Response

Invalid Response

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DATE: 06/08/2006

PATENT APPLICATION: US/10/544,284A

TIME: 09:53:36

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\06082006\J544284A.raw

240 <212> TYPE: DNA
 241 <213> ORGANISM: artificial sequence
 243 <220> FEATURE:
 244 <223> OTHER INFORMATION: anti-K88 codon optimised VL from 7-46
 246 <400> SEQUENCE: 10
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 249 atcactatca cctgcagtgc cagctcaagt ataagttcca attacttgca ttggtatcag 120
 251 cagaagccag gattctcccc taaactcttg atttatagga catccaatct ggcttctgga 180
 253 gtcccagttc gcttcagtgg cagtggtctt gggacctctt actctctcac aattggcacc 240
 255 atggaggctg aagatgttgc cacttactac tgccagcagg gtaatagtat accattcacg 300
 257 ttcggtcgg ggacaaagct cgag 324
 260 <210> SEQ ID NO: 11
 261 <211> LENGTH: 363
 262 <212> TYPE: DNA
 263 <213> ORGANISM: mouse
 265 <400> SEQUENCE: 11
 266 gatgtgcagc tgggtggagtc tgggggagggc ttagtgcagc ctggagggtc ccggaaactc 60
 268 tcctgtgcag cctctggatt cactttcagt agctttgcaa tgcactgggt tcgtcaggct 120
 270 ccagagaagg ggctggagtg ggtcgcatat attagtagtg gcagtattac catctactat 180
 272 gcagacacag tgaagggccg attcaccgtc tccagagaca atcccaagag caccctgttc 240
 274 ctgcaaataa ccagtctaag gtctgaggac acggccatgt attactgtgc aagagacgac 300
 276 tacggtagta gcgggtggta cttcgatgtc tggggcgagc ggaccacggc caccgtctcc 360
 278 tca 363
 281 <210> SEQ ID NO: 12
 282 <211> LENGTH: 350
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 284 <213> ORGANISM: mouse
 286 <400> SEQUENCE: 12
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 289 atgagctgca aatccagtcga gagtctgtct aacagtagaa cccgaaagaa ctacttggtc 120
 291 tggtagccagc agaaaccagg gcagctcctt aaactgctga tctactgggc atccactagg 180
 293 gaatctgggg tccctgatcg cttcacaggc agtggatctg ggacagattt cacycctacc 240
 295 atcagcagtg tgcaggctga agacctggca gtttattact gcacgcaatc ttataatctg 300
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 301 <211> LENGTH: 410
 302 <212> TYPE: DNA
 303 <213> ORGANISM: mouse
 305 <400> SEQUENCE: 13
 306 gaggtccagc tgcagcagtc tggacctgaa ctagtgaaga ctggggcttc agtgaagata 60
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 310 catggagaga gccttgagtg gattggatat attaattttt acaatgggtc tactaactac 180
 312 aaccagaagt tcaagggcaa ggccacattt actgtagaca catcctccag cacagtctac 240
 314 atgcagttca acagcctgac atctgaagac tctgcggtct attattgtgt aagagaagca 300
 316 ttactacgga actatgctat ggactactgg ggtcaaggaa cctcagtcac cgtctcctca 360
 318 gccaaaacga caccctcatc tgtctatcca ctggccctta ctagtgtgc 410
 321 <210> SEQ ID NO: 14
 322 <211> LENGTH: 317
 323 <212> TYPE: DNA

Invalid
Response

The type of errors shown exist throughout
 the Sequence Listing. Please check subsequent
 sequences for similar errors.

RAW SEQUENCE LISTING

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Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set : N:\CRF4\06082006\J544284A.raw

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324 <213> ORGANISM: mouse
326 <400> SEQUENCE: 14
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331 tcaggtgcct ccccaaaact ctggatttat agcacatcca acttggcttc tggagtccct      180
333 gctcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaatcag cagtgtggag      240
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337 ggaggcacca agctgga                                     317
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341 <211> LENGTH: 374
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343 <213> ORGANISM: mouse
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348 tcctgtgttg cctctggatt cactttcagt aactactgga tgaactgggt ccgccagtct      120
350 ccagagaagg ggcttgagtg ggttgctgaa attagattga catctaataa ttttgcaaca      180
352 cattatgcgg agtctgtgaa agggagggtc accatctcaa gagatgattc caaaagtagt      240
354 gtctacctgc aaatgaacaa cttaagagct gaagacactg gcatttatta ctgtaccagg      300
356 ccttactacg gtggtaggtt cttctactgg tacttcgatg tctggggcgc agggaccacg      360
358 gtcaccgtct cctc                                     374
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362 <211> LENGTH: 318
363 <212> TYPE: DNA
364 <213> ORGANISM: mouse
366 <400> SEQUENCE: 16
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369 atcacctgca gtgccagctc aagtataagt tccaattact tgcattggta tcagcagaag      120
371 ccaggattct cccctaaact cttgatttat aggacatcca atctggcttc tggagtccca      180
373 gttcgcttca gtggcagtgg gtctgggacc tcttactctc tcacaattgg caccatggag      240
375 gctgaagatg ttgccactta ctactgccag cagggttaata gtataccatt cacgttcggc      300
377 tcggggacaa agctcgag                                     318
380 <210> SEQ ID NO: 17
381 <211> LENGTH: 134
382 <212> TYPE: PRT
383 <213> ORGANISM: artificial sequence
385 <220> FEATURE:
386 <223> OTHER INFORMATION: anti-K99 heavy chain variable region OK
388 <400> SEQUENCE: 17
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391 1          5          10          15
394 Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
395          20          25          30
398 Ser Asp Tyr Phe Met Ser Trp Ile Arg Gln Thr Pro Glu Lys Arg Leu
399          35          40          45
402 Glu Trp Val Ala Thr Ile Asn Asn Gly Gly Ser His Thr Tyr Cys Ser
403          50          55          60
406 Asp Asn Val Lys Gly Arg Phe Thr Thr Phe Arg Asp Asn Val Lys Asn
407 65          70          75          80
410 Thr Leu Tyr Leu Gln Met Ser Ser Leu Asn Phe Glu Asp Thr Ala Met

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/08/2006
PATENT APPLICATION: US/10/544,284A TIME: 09:53:37

Input Set : A:\corrected 70235USPCT.ST25.txt
Output Set: N:\CRF4\06082006\J544284A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:18; Xaa Pos. 225,226

Seq#:80; Xaa Pos. 2

VERIFICATION SUMMARY

DATE: 06/08/2006

PATENT APPLICATION: US/10/544,284A

TIME: 09:53:37

Input Set : A:\corrected 70235USPCT.ST25.txt

Output Set: N:\CRF4\06082006\J544284A.raw

L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:224

L:1890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0